STRUCTURAL ABBREVIATIONS

A/E	ARCHITECT/ENGINEER
A.B.	ANCHOR BOLT
A.B.C.	AGGREGATE BASE COURSE
A.C.I.	AMERICAN CONCRETE INSTITUTE
ADD'L.	ADDITIONAL
ADDN.	ADDITION
ADH.	ADHESIVE
ADJ.	ADJACENT, ADJOINING, OR ADJUSTABLE
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
A.F.S.	ABOVE FINISHED SLAB
AGGR.	AGGREGATE
AHR.	ANCHOR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT.	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APA	AMERICAN PLYWOOD ASSOCIATION
APPD.	APPROVED
APPROX.	APPROXIMATE
AR	AS REQUIRED
ARCH.	ARCHITECT
ASI	ARCHITECT'S SUPPLEMENTAL INSTRUCTION
ASPH.	ASPHALT
ASSN.	ASSOCIATION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ATCH.	ATTACHMENT
AWS	AMERICAN WELDING SOCIETY
B PL.	BASE PLATE
BLDG.	BUILDING
BM.	BEAM
BOT.	BOTTOM
B.O.	BOTTON OF
BRG.	BRACING
BRDG.	BRIDGING
BRG.	BEARING
BRG. PL.	BEARING PLATE
BTWN.	BETWEEN
BUR	BUILT-UP ROOFING
C CONC.	CAST CONCRETE
C TO C	CENTER TO CENTER
CD	CONSTRUCTION DOCUMENTS
CFMF	COLD-FORMED METAL FRAMING
CIP	CAST-IN-PLACE
C.J.	CONSTRUCTION JOINT OR CONTROL JOINT
CL	CENTER LINE
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONSTR.	CONSTRUCTION
CONT.	CONTINUE
CONTR.	CONTRACTOR
COORD.	COORDINATE
COTR.	CONTRACTING OFFICER'S TECHNICAL REPRESENTITIVE
CRS	COLD ROLLED STEEL
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
CSI	CONSTRUCTION SPECIFICATIONS INSTITUTE
CSK.	COUNTER SUNK
D	DEPTH OR PENNY (NAIL)
DBL.	DOUBLE
DEL.	DELETE
DEMO.	DEMOLITION
DEPT.	DEPARTMENT
DTL.	DETAIL
DIA.	DIAMETER
DIAG.	DIAGONAL
DIFF.	DIFFERENCE
DIM.	DIMENSION
DIR.	DIRECTION
DIST.	DISTANCE
DIV.	DIVIDE OR DIVISION
DL	DEAD LOAD
DOC.	DOCUMENT
D.F.	DOUGLAS FIR
DWG.	DRAWING
EA.	EACH
ELEV.	ELEVATION
ENGR.	ENGINEER
E.N.	EDGE NAILING
EQ.	EQUAL
EQL. SP.	EQUALLY SPACED
EQUIP.	EQUIPMENT
ETC	AND SO FORTH OR ET CETERA
E.W.	EACH WAY
EXIST.	EXISTING
EXP.	EXPANSION OR EXPOSED
EXT.	EXTERIOR
FAS.	FASCIA
FDTN.	FOUNDATION
F.F. EL.	FINISH FLOOR ELEVATION
FIG.	FIGURE
FIL.	FILLET
FIN.	FINISH
FIN. FLR.	FINISH FLOOR
FIN. GR.	FINISH GRADE
FLR.	FLOOR
FLR. FIN.	FLOOR FINISH
F.O.C.	FACE OF CONCRETE OR FACE OF CURB
F.O.S.	FACE OF SLAB OR FACE OF STUD
F.O.W.	FACE OF WALL
FRMG.	FRAMING
FT.	FEET OR FOOT
FTG.	FOOTING
F.S.	FAR SIDE
GA.	GAUGE OR GYPSUM ASSOCIATION
GALV.	GALVANIC OR GALVANIZED
GALV. STL.	GALVANIZED STEEL
G.C.	GENERAL CONTRACTOR
GLU LAM	GLUED LAMINATED WOOD
GSB	GYPSUM SHEATHING BOARD
GT.	GROUT
GYP. BD.	GYPSUM BOARD
HDR.	HEADER
HCA	HEADED CONCRETE ANCHOR
HGR.	HANGER
HORIZ.	HORIZONTAL
H.S.	HIGH STRENGTH
HT.	HEIGHT
HVAC	HEATING, VENTILATING, & AIR CONDITIONIN

I	MOMENT OF INERTIA
IBC	INTERNATIONAL BUILDING CODE
ID.	IDENTIFICATION, INSIDE DIAMETER,
INCL.	INCLUDED
INFO.	INFORMATION
INT.	INTERIOR
L	ANGLE
LBS.	POUND
L.F.	LINEAR FEET (FOOT)
LH	LEFT HAND
LIN.	LINEAR
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LT. GA.	LIGHT GAGE
LT. WT.	LIGHTWEIGHT
LWC	LIGHTWEIGHT CONCRETE
LYR.	LAYER
MAINT.	MAINTENANCE
MAN.	MANUAL
MATL.	MATERIAL
MAX.	MAXIMUM
M.B.	MACHINE BOLT
MECH.	MECHANICAL
MEZZ.	MEZZANINE
MFD.	MANUFACTURED
MFG.	MANUFACTURING
MFR.	MANUFACTURER
MFR. REC.	MANUFACTURER'S RECOMMENDATION
MID.	MIDDLE
MIN.	MINIMUM
MISC.	MISCELLANEOUS
mm	MILLIMETER
MTL.	METAL
N/A	NOT APPLICABLE
NOM.	NOMINAL
NTS	NOT TO SCALE
N.S.	NEAR SIDE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER OUTSIDE DIMENSION
OPH	OPPOSITE HAND
OPNG.	OPENING
OPP.	OPPOSITE
OSHA	OCCUPATIONAL SAFETY & HEALTH ADMINSTRATION
PAR.	PARALLEL OR PARAPET
P.C.C.	PRECAST CONCRETE
PERF.	PERFORATED
PLYWD.	PLYWOOD
PREP.	PREPARATION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
QTY.	QUANTITY
REF.	REFERENCE
REINF.	REINFORCEMENT, REINFORCE
REQ.	REQUIRE
REQ'D.	REQUIRED
RFI	REQUEST FOR INFORMATION
SCHED.	SCHEDULE
SCHEM.	SCHEMATIC
SECT.	SECTION
S.F.	SQUARE FOOT (FEET)
SHT.	SHEET
SHTHG.	SHEATHING
SIM.	SIMILAR
SJI	STEEL JOIST INSTITUTE
SOG	SLAB ON GRADE
SPEC.	SPECIFICATION
SQ.	SQUARE
SQ. IN.	SQUARE INCH
STD.	STANDARD
STL. JST.	STEEL JOIST
STL. LNTL.	STEEL LINTEL
STL. PL.	STEEL PLATE
STL. RF. DK.	STEEL ROOF DECK
STL. TB.	STEEL TUBE
STL. TR.	STEEL TRUSS
STR.	STRINGERS
STRUCT.	STRUCTURAL
STRUCT. STL.	STRUCTURAL STEEL
SUB	SUBSTITUTE
SURF.	SURFACE
SUSP.	SUSPEND
SUSP. CLG.	SUSPENDED CEILING
SYM.	SYMBOL
T&G	TONGUE AND GROOVE
T&M	TIME AND MATERIALS
TB	THROUGH BOLT OR TOWEL BAR
TECH.	TECHNICAL
TEMP.	TEMPERATURE OR TEMPORARY
THK.	THICKNESS
THRU.	THROUGH
THRUOUT	THROUGHOUT
T.O	.TOP OF ___
T.O. FTG.	TOP OF FOOTING
T.O.BM.	TOP OF BEAM
T.O.M.	TOP OF MASONRY
T.O.P.	TOP OF PARAPET
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TYP.	TYPICAL
VAR.	VARIES
VERT.	VERTICAL
VEST.	VESTIBULE
VIF	VERIFY IN FIELD
VNR.	VENEER
V.R.	VAPOR RETARDER
W/	WITH
W/O	WITHOUT
WARR.	WARRANTY
WD.	WOOD
WF	WIDE FLANGE
WT	WEIGHT
WWF	WELDED WIRE FABRIC
X BRACE	CROSS BRACE

GENERAL STRUCTURAL NOTES

1. DESIGN INFORMATION AND LOADS USED: 2009 INTERNATIONAL BUILDING CODE
   - A. ROOF DEAD LOAD .... 15 PSF
   - B. FLOOR DEAD LOAD .... 15 PSF
   - C. OCCUPANCY CATEGORY.................... IV
   - D. SNOW LOAD:
     - GROUND SNOW LOAD, Pg .... 20 PSF
     - SNOW EXPOSURE FACTOR, Ce 1.0
     - SNOW IMPORTANCE FACTOR, I 1.1
     - THERMAL FACTOR, Ct 1.0
     - FLAT ROOF SNOW LOAD .... 25 PSF
   - E. FLOOR LIVE LOAD .... 80 PSF
   - F. WIND LOAD:
     - BASIC WIND SPEED .... 90 MPH
     - WIND IMPORTANCE FACTOR 1.15
     - WIND EXPOSURE C
     - INTERNAL PRESSURE COEF. GCpi .... +/- 0.18
   - G. SEISMIC IMPORTANCE FACTOR, I_E 1.5
     - MAPPED SPECTRAL RESPONSE ACCEL., S_S 0.311g
     - MAPPED SPECTRAL RESPONSE ACCEL., S_1 .... 0.106g
     - SITE CLASS .... D
     - Fa 1.55
     - Fv 2.38
     - SPECTRAL RESPONSE COEFFICIENT, S_{DS} 0.32
     - SPECTRAL RESPONSE COEFFICIENT, S_{D1} 0.17
     - SEISMIC DESIGN CATEGORY .... D
     - BASIC SEISMIC FORCE RESISTING SYSTEM .... LIGHT-FRAMED WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE
     - ANALYSIS PROCEDURE .... EQUIVALENT LATERAL FORCE
     - RESPONSE MODIFICATION FACTOR, R 6 1/2
     - SEISMIC RESPONSE COEFFICIENT USED FOR DESIGN C_s 0.10

2. SPECIAL INSPECTION:
   - A. A SPECIAL INSPECTOR SHALL BE EMPLOYED BY THE CONTRACTOR. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
   - B. ALL SPECIAL INSPECTION SHALL BE IN ACCORDANCE WITH THE 2006 INTERNATIONAL BUILDING CODE.
   - C. INSPECTION OF TWENTY PERCENT OF AN OPERATION OR PROCEDURE SHALL BE CONSIDERED ADEQUATE FOR PERIODIC SPECIAL INSPECTIONS.
   - D. CONCRETE

	ITEM	FREQUENCY OF INSPECTION
I	INSPECTION OF REINFORCING STEEL, INCLUDING PLACEMENT.	PERIODIC
II	INSPECTION OF REINFORCING STEEL WELDING	CONTINUOUS
III	INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE.	CONTINUOUS
IV	VERIFY USE OF REQUIRED DESIGN MIX.	PERIODIC
V	SAMPLING FRESH CONCRETE AND PERFORMING SLUMP, AIR CONTENT AND DETERMINING THE TEMPERATURE OF FRESH CONCRETE AT THE TIME OF MAKING SPECIMENS FOR STRENGTH TESTS.	CONTINUOUS
VI	INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	PERIODIC
VII	POST-INSTALLED ADHESIVE ANCHORS.	CONTINUOUS

   - E. STRUCTURAL STEEL:

	ITEM	FREQUENCY OF INSPECTION
I	MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS:	
	IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	PERIODIC
	MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	PERIODIC
II	INSPECTION OF HIGH-STRENGTH BOLTING:	
	BEARING-TYPE CONNECTIONS.	PERIODIC
	SLIP-CRITICAL CONNECTIONS	CONTINUOUS
III	MATERIAL VERIFICATION OF STRUCTURAL STEEL:.	
	IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	PERIODIC
	MANUFACTURER'S CERTIFIED MILL TEST REPORTS REQUIRED.	PERIODIC
IV	MATERIAL VERIFICATION OF WELD FILLER MATERIALS:	
	IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	PERIODIC
	MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	PERIODIC
V	INSPECTION OF WELDING:	
	COMPLETE AND PARTIAL PENETRATION GROOVE WELDS	CONTINUOUS
	MULTI-PASS FILLET WELDS	CONTINUOUS
	SINGLE-PASS FILLET WELDS > 5/16 INCH	CONTINUOUS
	SINGLE-PASS FILLET WELDS < 5/16 INCH	PERIODIC
	FLOOR AND DECK WELDS	PERIODIC
VI	INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:	
	DETAILS SUCH AS BRACING AND STIFFENING.	PERIODIC
	MEMBER LOCATIONS	PERIODIC
	APPLICATION OF JOINT DETAILS AT EACH CONNECTION	PERIODIC

   - F. COLD FORMED METAL FRAMING

	ITEM	FREQUENCY OF INSPECTION
I	WELDING	PERIODIC

3. FOUNDATION:
   - A. AN ALLOWABLE NET SOIL BEARING CAPACITY OF 1,500 PSF WAS USED IN THE DESIGN OF ALL FOOTINGS, PER 2009 IBC TABLE 1804.2.
   - B. FOOTINGS SHALL BE SUPPORTED ON 1.5 FT [457mm] OF COMPACTED STRUCTURAL FILL MATERIAL WRAPPED IN FILTER FABRIC, REINFORCED WITH TWO LAYERS OF APPROVED GEOGRID. THE GEOGRID REINFORCED FILL ZONE SHALL BEAR ON COMPETENT, NATIVE, POORLY GRADED SAND WITH GRAVEL OR COMPACTED STRUCTURAL FILL FOUNDED ON THIS STRATUM. GEOGRID MUST EXTEND A MINIMUM OF ONE FOOT BEYOND THE FOOTING LINE ON ALL SIDES. COORDINATE WITH GEOTECH REPORT FOR GEOGRID AND STRUCTURAL FILL REQUIREMENTS.
   - C. FOR PIPING OR OTHER UTILITIES ALONGSIDE OR PENETRATING THRU FOUNDATION WALLS RE: S3.1-2
   - D. PROVIDE DAMPPROOFING AT EXTERIOR FOUNDATION WALLS AT EXTERIOR FACE BELOW FINISHED GRADE.

4. CONCRETE:
   - A. THE MINIUMUM COMPRESSIVE STRENGTH AT 28 DAYS ....3,500 PSI
   - B. MINIMUM CLEAR COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
     1. CONCRETE PLACED DIRECTLY AGAINST EARTH - 3 [76mm] INCHES.
     2. FORMED SURFACES: #5 BARS OR SMALLER - 1 1/2 [38mm] INCHES.
        #6 BARS OR LARGER - 2 [51mm] INCHES.
     3. STRUCTURAL SLABS - 1 [25mm] INCH.
   - C. SAWN CONTROL JOINTS SHALL BE MADE AS SOON AS POSSIBLE WITHOUT DAMAGE TO SURFACE. FILLING OF JOINTS SHALL BE DELAYED AS LONG AS POSSIBLE TO ALLOW MAX. SHRINKAGE TO OCCUR IN SLABS. CW/ DETAIL S3.1-1
   - D. ALL REENTRANT CORNERS SHALL HAVE ADDITIONAL REINFORCEMENT AS SHOWN AT DETAIL. S3.2-1
   - E. PROVIDE (2) #3 BARS, WITH 2'-0" [610mm] PROJECTION ON ALL SIDES OF ALL OPENINGS IN CONCRETE, U.N.O.
   - F. ALL EMBEDDED ANCHOR BOLTS SHALL BE HEADED BOLTS OF MATERIAL CONFORMING TO SPECIFICATIONS UNLESS NOTED OTHERWISE.
   - G. CONTRACTOR SHALL PROVIDE FORMS AND FRAMING AS REQUIRED FOR ELEVATED SLABS AT EXPOSED EDGES AND OPENINGS TO MAINTAIN EDGES STRAIGHT AND PLUMB AND TRUE.
   - H. REINFORCEMENT IN FOOTINGS & STEM WALLS SHALL BE CONTINUOUS AROUND CORNERS & INTERSECTIONS, RE: S3.1-4
   - I. POST-INSTALLED ADHESIVE ANCHORS
     1. ADHESIVE FOR ANCHORS TO BE 'SIMPSON' 'SET-XP' EPOXY ADHESIVE SYSTEM
     2. ANCHORS TO BE A36 THREADED ROD OR EQUAL.
     3. MINIMUM EMBEDMENT LENGTH SHALL BE AS FOLLOWS UNLESS DETAILED OTHERWISE.

ANCHOR DIA. (IN.)	MIN. EMBEDMENT (IN.)	
3/8"	3 1/2"	[89mm]
1/2"	4 1/4"	[108mm]
5/8"	5	[127mm]
3/4"	6 5/8"	[168mm]
1"	8 1/4"	[210mm]
1 1/8"	12"	[305mm]

     4. ALL ADHESIVE ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.

5. REINFORCING STEEL:
   - A. ASTM A615, GRADE 60. BARS TO BE WELDED SHALL BE ASTM A706, GRADE 60.
   - B. MIN. LENGTH OF LAPPED SPLICES SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE. STAGGER SPLICES IN WALLS SO THAT NO TWO ADJACENT BARS ARE SPLICED IN THE SAME LOCATION UNLESS SHOWN OTHERWISE. MAKE ALL BARS CONTINUOUS AROUND CORNERS OR PROVIDE CORNER BARS OF EQUAL SIZE AND SPACING.

BAR SIZE	SPLICE LENGTH
#3	18" [457mm]
#4	24" [610mm]
#5	30" [762mm]
#6	36" [914mm]
#7	62" [1575mm]
#8	71" [1803mm]
#9	76" [1930mm]

   - C. FORM TIES SHALL BE EITHER THREADED OR THE SNAP-OFF TYPE SO THAT NO METAL WILL BE LEFT WITHIN ONE INCH OF THE WALL SURFACE. RECESSES ARE TO BE FILLED AND POINTED W/ MORTAR.
   - D. PROVIDE BAR SUPPORTS AND SPACERS FOR REINFORCEMENT. PROVIDE CHAIRS W/ 22 GA. SAND PLATES OR PRECAST BLOCKS FOR ALL REINFORCING OF SLABS ON GRADE AND DECK CHAIRS FOR REINFORCEMENT IN SLABS OVER STEEL DECKING. SECURELY TIE REINFORCEMENT TO SUPPORTS.
   - E. DO NOT WELD ANY REINFORCEMENT UNLESS SPECIFICALLY DETAILED.
   - F. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185, Fy=75,000 PSI.

6. STRUCTURAL STEEL:
   - A. STEEL DESIGNATIONS: WIDE FLANGE SHAPES (BEAMS & COLUMNS)......... ASTM A992
     OTHER ROLLED SHAPES & MISCELLANEOUS PLATE .... ASTM A36 (U.N.O.)
     MOMENT FRAME CONNECTION CONTINUITY AND WEB DOUBLER PLATES.... ASTM A572
     HOLLOW STRUCTURAL SECTIONS (HSS) .... ASTM A500, GRADE 'B'
   - B. FIELD CONNECTIONS SHALL BE MADE WITH 3/4" DIA. A325 BOLTS UNLESS NOTED OTHERWISE. IF A CERTAIN SITUATION IS NOT DETAILED USE A SIMILAR DETAIL. CONNECTIONS SHALL GENERALLY FOLLOW THE TYPES SHOWN IN AISC MANUAL OF STEEL CONSTRUCTION.
   - C. ALL ELEVATIONS AND HEIGHTS GIVEN ARE FROM THE FINISHED FIRST FLOOR DATUM ELEVATION, WHICH IS SET AT 100'-0".
   - D. BASE PLATE ANCHOR ROD HOLES MAY BE OVERSIZED AS FOLLOWS:

ROD DIA.(IN)	HOLE DIA.(IN)	MIN. WASHER DIA.(IN)	WASHER THICKNESS
3/4"	1 1/4	1 7/8	N.A.
1	1 1/2	2 5/8	3/8

     SQUARE PLATE WASHERS FABRICATED FROM ASTM A36 MATERIAL ARE ACCEPTABLE, MIN. SIDE LENGTH = MINIMUM DIAMETER.
   - E. COMPLETE JOINT PENETRATION WELDS BETWEEN BEAM FLANGES AND COLUMNS SHALL BE CONSTRUCTED AS FOLLOWS. TOP FLANGE: EITHER REMOVE WELD BACKING, BACKGOUGE, AND ADD 5/16" MIN. FILLET WELD OR LEAVE BACKING IN PLACE AND ADD 5/16" FILLET UNDER BACKING. BOTTOM FLANGE: REMOVE WELD BACKING, BACKGOUGE, AND ADD 5/16" MINIMUM FILLET WELD.
   - F. WELD ACCESS HOLES AT MOMENT CONNECTIONS SHALL BE AS RECOMMENDED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FEMA 350, CHAPTER 3.

7. WOOD FRAMING:
   - A. ROUGH FRAMING:
     1. LEDGERS, PLATES, STUDS, & OTHER STRUCTURAL LUMBER SHALL BE DOUGLAS FIR NO. 2 OR BETTER.
     2. LEDGERS AND PLATES IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.
     3. ALL HEADERS TO BE (2) 2x6 DF. #2, U.O.N.
   - B. ALL NAILS SHALL BE COMMON TYPE NAILS.
   - C. EXTERIOR WOOD STUD WALL CONSTRUCTION
     1. USE 2X6 DF. #2 STUDS AT 16" O.C.
     2. PROVIDE 7/16" EXT OSB SHEATHING. FASTEN W/ 16 GA.x1 1/2" STAPLES AT 6" O.C. ALL EDGES AND AT 10" O.C. TO INTERMEDIATE FRAMING U.N.O., CW/ SHEAR WALL SCHEDULE FOR ADDITIONAL NAILING REQUIREMENTS.
     3. PROVIDE 2X6 BLOCKING AT ALL WALL SHEATHING EDGES AS REQ'D. FOR NAILING.
   - D. ALL PLY/OSB NAILING SHALL BE 3/8" MIN. FROM PANEL EDGES. PROVIDE 1/8" SPACING BETWEEN PANEL EDGES BY MEANS OF NAILS OR SIMPSON PSCL SHEATHING CLIPS.
   - E. ALL NAILING SHALL, AT A MINIMUM, MEET THE REQUIREMENTS OF IBC CHAPTER 23 TABLE 2304.9.1 NAILING SCHEDULE.
   - F. ALL REFERENCE TO 'SIMPSON' INDICATES STRUCTURAL CONNECTIONS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC.
   - G. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR ALL SIMPSON, OR EQUAL, CONNECTIONS.
   - H. PROVIDE SIZE, TYPE, AND QUANTITY OF FASTENERS RECOMMENDED BY METAL WOOD CONNECTOR MANUFACTURER UNLESS NOTED OTHER WISE. DETAILS SHOWING CONNECTOR FASTENERS ARE DIAGRAMMATIC.
   - I. RE: S3.1-15 FOR TYPICAL TOP PLATE SPLICE DETAILING.

8. WALL SHEATHING:
   - A. WALL SHEATHING TO BE APA RATED SHTG. MEETING THE REQUIREMENTS OF VOLUNTARY PRODUCT STANDARD PS 1-07. PLYWOOD SHALL HAVE EXPOSURE 1 DURABILITY WITH A SPAN RATING OF 32/16.
   - B. TYPICAL WALL SHEATHING SHALL BE FASTENED WITH 8d NAILS AT 6" O.C. AT PANEL EDGES, AND 8d NAILS AT 12" AT INTERMEDIATE FRAMING. SEE DRAWING S2.1 FOR NAILING REQUIRED AT SHEAR WALLS.
   - C. SEE PLAN SHEET FOR SHTG. THICKNESS & OTHER NAIL SPACING.

9. ROOF SHEATHING:
   - A. ROOF SHEATHING TO BE 7/16" PLYWOOD MEETING THE REQUIREMENTS OF VOLUNTARY PRODUCT STANDARD PS 1-07. SHEATHING SHALL HAVE EXPOSURE 1 DURABILITY WITH A SPAN RATING OF 32/16.
   - B. ROOF SHEATHING TO BE FASTENED WITH 8d COMMON NAILS AT 6" O.C. AT SUPPORTED PANEL EDGES AND 12" O.C. AT INTERMEDIATE FRAMING MEMBERS.
   - C. ROOF SHEATHING TO BE ORIENTED WITH LONG AXIS PERPENDICULAR TO THE ROOF TRUSSES, STAGGERED AS SHOWN ON DRAWINGS.

10. STRUCTURAL COLD FORMED STEEL FRAMING:
   - A. ALL STRUCTURAL MEMBERS SHALL HAVE A MIN. YIELD STRNGTH OF Fy= 50 KSI.
   - B. ALL CONNECTIONS SHALL BE WELDED (UNLESS NOTED OTHERWISE) AND SHALL BE 1/16" MIN. FILLET WELDS & 1/8" MIN. FLARE BEVEL WELDS. IF A CERTAIN CONNECTION IS NOT DETAILED, USE A SIMILAR DETAIL.
   - C. MINIMUM NET EFFECTIVE SECTION PROPERTIES SHALL BE AS FOLLOWS:

STRUCTURAL LIGHT GAUGE STEEL FRAMING SCHEDULE				
MINIMUM NET EFFECTIVE SECTION PROPERTIES				
SIZE AND GAUGE	AREA IN^2	Sx IN^3	Ix IN^4	Fy ksi (MIN.)
600S200-54	.613	1.1	3.31	50
400S162-54	.443	.55	1.1	50

   - D. TYPICAL STUD SPACING SHALL BE 16" O.C. UNLESS NOTED OTHERWISE ON PLANS
   - E. PROVIDE STRAP/BLOCKING AT 4'-0" O.C. FULL HEIGHT OF WALLS PER S3.2-17, TYP.
   - F. CW/ ARCH. FOR ALL NON-STRUCTURAL STUD WALL FRAMING.
   - G. RE: S3.2-18 & 19 FOR TYPICAL HEAD, SILL AND JAMB DETAILING.

11. STEEL FLOOR DECK:
   - A. USE TYPE B FORMLOK DECK (VERCO), 20 GA., PAINTED. RE: FRAMING PLANS FOR CONCRETE TOPPING THICKNESS.
   - B. THE FASTENING SHALL BE:
     - SIDE LAPS.................... BUTTON PUNCH AT 24" [610mm] O.C.
     - ENDS.................... (4) 5/8" DIA. ARC SPOT WELDS PER PANEL
     - BUILDING PERIMETER.................... .5/8" DIA. ARC SPOT WELDS AT 6" [152mm] O.C.
     - INTERMEDIATE SUPPORTS.................... (4) 5/8" DIA. ARC SPOT WELDS PER PANEL
   - C. THE ELEVATED CONC. DECK SHALL BE REINFORCED WITH 6X6-W2.9XW2.9 WWF. LOCATED 1" [25mm] FROM TOP OF CONCRETE.
   - D. CONTRACTOR SHALL PROVIDE POURSTOPS AT ALL CONC. EDGE ABLE TO SUPPORT WET WEIGHT OF CONC. AND OTHER CONSTRUCTION LOADS W/ DEFLECTION NO MORE THAN 1/16" FROM HORIZONTAL, UNLESS NOTED OTHERWISE.

12. STEEL ROOF DECK:
   - A. TYPICAL ROOF DECK:
     1. USE VERCO HSB-36 DECK, PAINTED.
     2. RE: ROOF FRAMING PLANS FOR ATTACHMENT REQUIREMENTS.
     3. COORDINATE ALL OPENINGS IN THE ROOF DECK WITH MECHANICAL AND ARCHITECTURAL DISCIPLINE.
     4. DECK MUST BE CONTINUOUS OVER 2 SPANS UNLESS OTHERWISE SHOWN.
   - B. SUBSTITUTIONS:
     1. 'VERCO' PUNCHLOCK CAN BE USED IN LIEU OF TOP SEAM WELDS AT SAME SPACING

95% SUBMISSION

REVISIONS | DATE

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STAMP
PRELIMINARY
NOT FOR
CONSTRUCTION

DRAWING TITLE	STRUCTURAL NOTES
APPROVED: DIVISION CHIEF	
APPROVED: SERVICE DIRECTOR	
PROJECT TITLE	VAMC RENOVATE BUILDING 33
BUILDING NUMBER	33
CHECKED	BA
DRAWN	MG
LOCATION	BOISE, IDAHO
DATE	03/04/11
PROJECT NO.	531-10-114
DRAWING NO.	S0.1
DWG.	48 OF 102

DEPARTMENT OF VETERANS AFFAIRS